





European Federated Identity Management

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Activities

- Federated Identity Management for Scientific Collaborations
 - 4 workshops (http://indico.cern.ch/event/191892)
- Federated Identity Infrastructure
 - Driven by European NRENs
- Thoughts from European Grid Infrastructure
 - https://wiki.egi.eu/wiki/VT_Federated_Identity_P
 roviders Assessment
- Conclusions





Federated IdM in "Research" (From Dave Kelsy, STFC) A collaborative effort started in June 2011

- Involves photon & neutron facilities, social science & humanities, high energy physics, climate science and life sciences, fusion energy
- 4 workshops to date
- Documented common requirements, a common vision and recommendations
 - To research communities, identity federations, funding bodies
- An important use case for international federation
- CERN-OPEN-2012-006: https://cdsweb.cern.ch/record/1442597





Common vision statement

A common policy and trust framework for Identity Management based on existing structures and federations either presently in use by or available to the communities. This framework must provide researchers with unique electronic identities authenticated in multiple administrative domains and across national boundaries that can be used together with community defined attributes to authorize access to digital resources





Common Requirements

- User friendliness
- Browser and non-browser federated access
- Bridging between communities
- Multiple technologies and translators
- Open standards and sustainable licenses
- Different Levels of Assurance
- Authorisation under community and/or facility control
- Well defined semantically harmonised attributes
- Flexible and scalable IdP attribute release policy
- Attributes must be able to cross national borders
- Attribute aggregation for authorisation
- Privacy and data protection to be addressed with community-wide individual identities





Operational Requirements

- Risk analysis
- Traceability
- Security incident response
- Transparency of policies
- Reliability and resilience
- Smooth transition
- Easy integration with local SP





Recommendations

- To technology providers
 - This includes REFEDS and national federations
 - Separation of AuthN and AuthZ
 - Revocation of Credentials
 - Attribute delegation to the research community
 - Levels of Assurance



European Activity

- European NRENs and beyond
 - https://refeds.org/ 16M users 1000s orgs
 - But poor overlap with EGI user base!
- Connect national identity federations
 - www.edugain.org
 - Federation of federations







European Grid Infrastructure







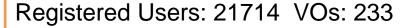
Participants in EGI

- European
 - Over 35 countries
- Grid
 - Secure sharing
- Infrastructure
 - Computers
 - Clouds
 - Disk and tapes
 - Data Archives
 - Digital Libraries
 - **—**
- EGI.eu @ Amsterdam
 - Dedicated organisation
 - Coordination for Europe
 - 26 staff





Infrastructure Providers



LCPUs: 470,000 Disk: 143PB Tape: 138PB

Jobs: 1.62 million/day



Integrated EGI-InSPIRE Partners and EGI Council Members

External Resource Providers (integrated)

Internal/External Resource Providers (being integrated)

Peer Resource Providers



EGI Activities

- Personal Certificates
 - Traditional X509 certs through human RA
- Terena Certificate
 - Use Fed IdM to access certificate server
- Federated IdM Access
 - Enabled web based services
 - Some science gateways



Summary

- Federated ID Management works....
 - Does not seem to be actively used in EGI
- Getting attributes released is very hard
 - Fear in Europe over data protection issues



Solution

- FedID provides a source of ID
- Attributes served by the community
 - VOMS like capability
- Middleware needs to support this model
 - How not to use X.509 certs as Rosetta Stone